

# PATENT COOPERATION TREATY

## PCT Rec'd PCT/PTO 10 DEC 2004

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>OPP031015KR</b>	<b>FOR FURTHER ACTION</b> <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small>		
International application No. <b>PCT/KR 2004/000521</b>	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; padding: 0 10px;">                     (Earliest) Priority Date (day/month/year)  <b>10 April 2003 (10.04.2003)</b> </td> <td style="width: 50%; border: none; padding: 0 10px;">                     International filing date (day/month/year)  <b>12 March 2004 (12.03.2004)</b> </td> </tr> </table>	(Earliest) Priority Date (day/month/year) <b>10 April 2003 (10.04.2003)</b>	International filing date (day/month/year) <b>12 March 2004 (12.03.2004)</b>
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Applicant <div style="text-align: center;"><b>KTFREETEL CO., LTD.</b></div>			

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see continuation of this first sheet.

2. ☐ Certain claims were found unsearchable (see continuation of this first sheet)

3. ☐ Unity of invention is lacking (see continuation of this first sheet)

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in the continuation of this first sheet. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 2

☐ as suggested by the applicant.

☒ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

**Continuation of first sheet**

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:

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**Continuation No. IV:****Text of the abstract**

**(Continuation of item 5 of the first sheet)**

Disclosed is a device (200) and a method for measuring a receive sensitivity of a communication system having a transmit and receive path and a receive-only path, like a base station (100) employing space diversity by means of one transmit and receive antenna (111) and an additional receive antenna (121).

A terminal (220) is connected to the transmit and receive path and to the receive-only path by means of a first (112) and a second coupler (122) and a first (213a) and a second transmitter (215a) whereby the input signals are combined by a combiner (211) to a single signal fed to the terminal (220). Furthermore, the terminal (220) selectively transmits a test signal at selected frequencies to a receive sensitivity measuring path by means of a first (212) and a second (214) switch and a first (213b) and a second (215b) receiver in order to measure the receive sensitivities of the transmit and receive path and the receive-only path of the communication system and to measure the performance of the corresponding communication system.

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## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR 2004/000521

A. CLASSIFICATION OF SUBJECT MATTER H04B 17/00, H04Q 7/34 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) H04B, H04Q		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPI, EPODOC, PAJ		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 2002068965 A (MTI CO LTD) 28 August 2002 (28.08.2002) & US 2003/0179730 A1 (LEE, S.K. et al.) 25.09.2003 <i>abstract, figs. 4-6; paragraphs [0030]-[0047].</i>	1-14
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A	WO 2001/026239 A1 (NOKIA NETWORKS OY) 12 April 2001 (12.04.2001) <i>abstract, figs. 1, 2; page 2, line 4 - page 4, line 3.</i>	1-14
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A	GB 2272604 A (MOTOROLA) 18 May 1994 (18.05.1994) <i>abstract, fig. 5; page 6, line 29 - page 7, line 30.</i>	1-14
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<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 2 June 2004 (02.06.2004)		Date of mailing of the international search report 25 August 2004 (25.08.2004)
Name and mailing address of the ISA/ AT <b>Austrian Patent Office</b> Dresdner Straße 87, A-1200 Vienna Facsimile No. +43 / 1 / 534 24 / 535		Authorized officer <b>LOIBNER K.</b> Telephone No. +43 / 1 / 534 24 / 323

INTERNATIONAL SEARCH REPORT  
Information on patent family members

International application No.  
PCT/KR 2004/000521

Patent document cited in search report			Publication date	Patent family member(s)		Publication date
GB	A	2272604	1994-05-18	none		
KR	A	20020689 65	2002-08-28	CN	A	1447551
				US	A	2003179730
						2003-10-08
						2003-09-25
WO	A	20010262 39		none		